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APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/512,068		10/21/2004	Manabu Abe	XA-10199	8611	
181	7590	04/14/2006		EXAMINER		
		BRIDGE PC	ARCE DIAZ, MARLON A			
1751 PIN SUITE 50	NACLE D	RIVE	ART UNIT	PAPER NUMBER		
	N, VA 22	102-3833	3611			
				DATE MAILED: 04/14/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Assists Commencer	10/512,068	ABE ET AL.					
Office Action Summary	Examiner	Art Unit					
	Marlon A. Arce-Diaz	3611					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 27 Ja	nuary 2006.						
, ,	action is non-final.						
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the	e merits is				
closed in accordance with the practice under E	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-6 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-6</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine	r.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:		O-152)				

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#### **DETAILED ACTION**

## Response to Arguments

1. Applicant's arguments, see amendment, filed 1/27/06, with respect to the rejection(s) of claim(s) 1-3 under Kobayashi have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Kobayashi (US Pub No 2001/0001932).

### **Priority**

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kobayashi (US Pub 2001/0001932 A1) in view of Table H-2 from "mechanics of materials" by James M. Gere, Henceforth (the table). Kobayashi discloses a motor (30) attached to a housing (6), a moving shaft (13), an input shaft (2), an absorbing member (47) (shown in figs 4A to 4D) being attached to

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the moving shaft, wherein the absorbing member includes a metal member (144) and a rubber elastic member (147). Kobayashi discloses metal members having D-shaped holes, Kobayashi also discloses an elastic member (fig 3) being able to be brought into contact with the housing. Kobayashi fails to mention the absorbing member as having a young's modulus of elasticity, let alone one in the range of 100 – 900 MPa. Instead, Kobayashi only states that the elastic member (147) is molded of a material "such as" NBR or CR, meaning that the elastic member could be made of another material as long as it has a high impact absorbing ability. Table H-2 found in "Mechanics of Materials" by James M. Gere lists numerous properties, including young's modulus (elasticity), for a variety of materials. It can be seen from viewing the list that several materials have young's modulus that fall within the stated range of 100 - 900 MPa. Specifically please note that polyethylene may have a young's modulus of 700 –1400 MPa. Such elasticity measurement indicates that the material thus has a higher impact absorption capacity. It would have been obvious for someone skilled in the art at the time the invention was made to make the elastic and absorbing member (147,47) in Kobayashi's invention from any material that exhibits a high impact absorption capacity within the range of 100 – 900 MPa as such as polyethylene, in order to have optimum impact protection.

#### Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marlon A. Arce-Diaz whose telephone number is (571) 272-1341. The examiner can normally be reached on Mon-Fri 8:00 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lesley Morris can be reached on (571) 272-6651. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Marlon Arce-Diaz

4/4/06

MAA

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600